EXHIBIT 1 3 OF 3

REDACTED

- research conference, Amyloid and other abnormal protein assembly processes, August, 1995.
- A60. Maggio, J.E.: Biochemical approaches to 7TM receptors [Invited Talk]. Structure, Modeling and Biophysics of G Protein-Coupled Receptors, Philadelphia, PA, December, 1995.
- A61. Husain, S.S., Wilson, C.J., Miller, K.W., and Maggio, J.E.:

 p-(4-Hydroxybenzoyl)phenylalanine: A photoreactive amino acid analog amenable to radioiodination for elucidation of bioactive peptide-receptor interaction [Invited Talk]. Massachusetts General Hospital Research Symposium. January. 1996.
- A62. Esler, W.P., Stimson, E.R., Ghilardi, J.R., Vinters, H.V., Lee, J.P., Mantyh, P.W., and Maggio, J.E.: Defining a new pharmacological target in Alzheimer's disease. 25th NE Pharmacologists Meeting, February, 1996.
- A63. Lee, J.P., Hassell, D.R.M., Mehr, K.G., Stimson, E.R., Esler, W.P., and Maggio, J.E.: Estimating differences in the hydrodynamic volume of amyloid peptides from Alzheimer's disease via diffusion measurements. 37th Experimental NMR Conference, Abst. 76, 1996.
- A64. Casey, N., Stimson, E.R., Esler, W.P., Maggio, J.E., and Lee, J.P.: Comparing the conformational properties of Aβ(12-28) and Aβ(12-28)F19T in water solution. Experimental Nuclear Magnetic Resonance Conference, April, 1996.
- A65. Lee, J.P., Zhang, S.S., Hassell, D., Casey, N., Stimson, E.R., Esler, W.P., and Maggio, J.E.: Forces in the formation of amyloid deposits. Neurobiol. Aging 17: S131-S132, 1996.
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- A68. Esler, W.P., Stimson, E.R., Ghilardi, J.R., Felix, A.M., Lu, Y.-A., Tseng, B.P., Casey, N., Vinters, H.V., Karnovsky, M.L., Lee, J.P., Mantyh, P.W., and Maggio, J.E.: Structure activity analysis of Aβ deposition. Soc. Neurosci. Abst. 22: 1170, 1996.
- A69. Ghilardi, J.R., Finke, M.P., Rogers, S.D., Stimson, E.R., Esler, W.P., Maggio, J.E. Vinters, H.V., Dysken, M.W., and Mantyh, P.W.: Template specific deposition of Aβ¹⁻⁴⁰ onto cerebrovascular amyloid and Aβ¹⁻⁴² onto

- parenchymal amyloid in the human Alzheimer disease brain. Soc. Neurosci. Abst. 22: 1171, 1996.
- A70. Podlisny, M.B., Amarante, P., Walsh, D., Stimson, E.R., Maggio, J.E., Teplow, D., and Selkoe, D.: A β aggregation in cell culture: Similar aggregation of ¹²⁵I-A β and endogenous A β and inhibition by Congo red. Soc. Neurosci. Abst. <u>22</u>: 1171, 1996.
- A71. Wilson, C.J., Husain, S.S., Stimson, E.R., Dangott, L.J., Miller, K.W., Popitz-Bergez, F., and Maggio, J.E.: *p*-(4-Hydroxybenzoyl)phenylalanine: An iodinatable photoreactive amino acid analog: Application to substance P receptor. Soc. Neurosci. Abst. 22: 1300, 1996.
- A72. Biere, A.L., Ostaszewski, B.L., Stimson, E.R., Hyman, B.T., Maggio, J.E., and Selkoe, D.J.: Aβ is transported on lipoproteins and albumin in human plasma. Soc. Neurosci. Abst. 22: 1695, 1996.
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- A74. Lee, J.P., Peng, J., Stimson, E., Hassell, D., Shang, S.-S., Casey, N., Li, S., Esler, W., Clish, C., and Maggio, J.E.: The structure of the Alzheimer's peptide suggests that amyloidogenesis is similar to protein folding. Mass. Alzheimer's Disease Res. Center Symposium 10: 29, 1997.
- A75. Zhang, S., Lee, J.P., Stimson, E., Hassell, D., Casey, N., Li, S., Esler, W., Clish, C., and Maggio, J.E.: Electrostatic property studies of Alzheimer's disease peptides by NMR. Mass. Alzheimer's Disease Res. Center Symposium 10: 30, 1997.
- A76. Walsh, D.M., Lomakin, A., Benedek, G.B., Maggio, J.E., Esler, W., Condron, M., and Teplow, D.B.: Amyloid β-protein fibrillogenesis: Discovery and partial characterization of a protofibrillar intermediate. Mass. Alzheimer's Disease Res. Center Symposium 10: 31, 1997.
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- A78. Lee, J.P., Li, S., Stimson, E.R., Zhang, S., Maggio, J.E., and Peng, J.W.:

 Conformational aspects of amyloid peptides in water solution, mechanistic implications for Alzheimer's disease. Mass. Alzheimer's Association Res. Center Symposium 10: 34, 1997.

- A79. Esler, W.P., Stimson, E.R., Ghilardi, J.R., Felix, A.M., Lu, Y.-A., Tseng, B.P., Casey, N., Vinters, H.V., Lee, J.P., Mantyh, P.W., and Maggio, J.E.: Structure-activity analysis of Aβ deposition. Keystone Symp. Mol. Cell. Biol., Molec. Mechanisms in Alzheimer's Disease C1: 17, February 1997.
- A80. Ghilardi, J.R., Rogers, S., Maggio, J.E., and Mantyh, P.W.: Site specific deposition of Aβ40 and Aβ42 in Alzheimer disease brain. Keystone Symp. Mol. Cell. Biol., Molec. Mechanisms in Alzheimer's Disease C1: 19, February 1997.
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- A83. Lee, J., Peng, J., Stimson, E., Hassell, D., Zhang, S., Casey, N., Li, S., Esler, W., Clish, C., and Maggio, J.: The structure of the Alzheimer's peptide suggests that amyloidogenesis is similar to protein folding. Keystone Symp. Mol. Cell. Biol., Molec. Mechanisms in Alzheimer's Disease C1: 30, February 1997.
- A84. Maggio, J.E., Esler, W.P., Stimson, E.R., Ghilardi, J.R., Vinters, H.V., and Mantyh, P.W.: Apolipoprotein E affects Aβ aggregation but not Aβ deposition *in vitro*: *APOε4* as a loss of function mutation in Alzheimer's disease. Keystone Symp. Mol. Cell. Biol., Molec. Mechanisms in Alzheimer's Disease C1: 35, February 1997.
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- A87. Weldon, D.T., Finke, M.P., Ghilardi, J.R., Rogers, S.D., Esler, W.P., Dysken, M.W., Maggio, J.E., and Mantyh, P.W.: Injection of fibrillar Aβ(1-40) and Aβ(1-42) induces phagocytosis by microglia, astrocyte hypertrophy and loss of a select population of neurons in the rat brain: Dissecting the cellular cascade that mediates Aβ neurotoxicity *in vivo*. Soc. Neurosci. Abst. 23: 1633, 1997.

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- A93. Addona, G.H., Maggio, J.E., and Miller, K.W.: Topographical investigation of the substance P antibody binding site by site-directed spin labeling. Biophys. J. 78: 218POS, 2000.
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- A99. Cleary, J.P., Ghilardi, J.R., Maggio, J.E., Mantyh, P.W., Hofmeister, J.J., Fritz, M., Hsiao Ashe, K., O'Hare, E.: Immunization against Aβ in APP-overexpressing transgenic mice. Soc. Neurosci. Abst. 26: 497, 2000.
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- A104. Keyser, C.P., Rogers, S.D., Peters, C.M., Sabino, M.C., Luger, N.M., Maggio, J.E., and Mantyh, P.W.: Long term plasticity induced by chronic pain:

 Proliferation and death of cells in the spinal cord and DRG in a murine model of bone cancer pain. Soc. Neurosci. Abst. 27: 55.1, 2001.
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- A106. Maggio, J.E., Stimson, E.R., Esler, W.P., Egnaczyk, G.F., Marshall, J.R., and Lee, J.P.: Folding and misfolding in neurodegenerative disease: Amyloid, Aβ, and Alzheimer's [Invited Talk]. The First Indian Symposium of the Protein Society, Mumbai, India, Abst. IL-16, 2002.
- A107. Maggio, J.E., Egnaczyk, G.F., Stimson, E.R., Wilson, C.J.: Using photoaffinity labels to investigate biological interactions [Invited Talk]. Dept. of Organic Chemistry, IISc Bangalore, Bangalore, India, 2002.
- A108. Chu, G, Egnaczyk, G.F., Zhao, W., Gerst, M., Maggio, J.E.: Identification of a novel heat shock-like phosphoprotein associated with β-adrenergic signaling in mouse cardiomyocytes. Circulation 106(19): 11-26, 2002.

- A109. Maggio, J.E.: Tachykinins and their receptors: From isolation, to sequence, to function [Invited Talk]. Winter Neuropeptide Conference, Regulatory Peptides 110: 136, 2003.
- A110. Schwei, M.J., Maggio, J.E., Sevcik, M.E., Peters, C.M., Lindsay, T.H., Luger, N.M., Rohrich, H., Goblirsch, M.J., Matthews, W.E., Clohisy, D.R., Ghilardi, J.R., and Mantyh, P.W.: Radiation and chemotherapy induced neuropathic pain. Soc. Neurosci. Abst. 29: 178.11, 2003.
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- A112. Maggio, J.E.: Protein misfolding and misassembly in disease: Aβ, amyloid & Alzheimer's [Invited Talk]. Cornell-Weill College of Medicine (Pharmacology/Neurology), New York, 2004.
- A113. Maggio, J.E.: Peptide misassembly in neurological disease: Aβ and Alzheimer's disease [Invited Talk]. Temple University School of Medicine (Pharmacology), Philadelphia, 2005.
- A114. Maggio, J.E.: Protein misfolding and misassembly in disease: Aβ, amyloid & Alzheimer's [Invited Talk]. University of Cincinnati College of Medicine, Cincinnati, 2005.
- A115. Maggio, J.E.: Protein misfolding in disease: Aβ, amyloid and Alzheimer's [Invited Talk]. Temple University School of Medicine (Biochemistry), Philadelphia, 2005.
- A116. Maggio, J.E.: Protein misassembly and neurological disease: Aβ, amyloid and Alzheimer's disease [Invited Talk]. University of Wyoming (Neuroscience), Laramie, 2005.
- A117. Maggio, J.E.: Protein misfolding and misassembly in disease: Aβ, amyloid, and Alzheimer's [Invited Talk]. University of Minnesota (Neurology), Minneapolis VA (GRECC), Minneapolis, 2005.
- A118. Maggio, J.E.: Progress against Alzheimer's disease, 1991-2006 [Keynote Address].

 Alzheimer's Disease Summer Symposium, Erlanger, KY, 2006.

SELECTED AFFILIATIONS

American Chemical Society Society for Neuroscience

American Society for Pharmacology and Experimental Therapeutics Federation of American Societies for Experimental Biology Association for Medical School Pharmacology Association of Medical School Pharmacology Chairs International Brain Research Organization American Association for the Advancement of Science Foundation for Biomedical Research American Peptide Society International Neuropeptide Society Boston Area Neuroscience Group Protein Society

COMPETITIVE SUPPORT

[Continuous extramural support since 1976; continuous NIH R01 support since 1985.]

Total competitive research support to JEM as PI by academic year (JEM individual research only; does not include direct support for my students or postdocs; does not include institutional instrumentation and infrastructure grants I wrote or co-wrote).

	Dii	rect costs	In	direct costs	To	otal costs	%effort
1976-1980:	\$ =		\$		\$		100%
1981-1985:	\$ =	≈ 50,000	\$	(unknown)	\$	(unknown)	100%
1986-1990:	\$	706,281	\$	564,552	\$	1,270,833	80-100%
1991-1995:	\$ 1	1,239,685	\$	953,485	\$	2,193,170	80-90%
1996-2000:	\$ 1	1,226,282	\$	722,447	\$	1,948,729	35-90%
2001-2005:	\$	881,357	\$	421,726	\$	<u> 1,303,083</u>	30-40%
1986-2005:	\$ 4	4,053,605	\$	2,662,210	\$	6,715,815	
In 2005 dollars ¹ : \$5,683,278 \$3,712,991 \$9,396,264 ¹ Adjusted for NIH's Biomedical Research and Development Price Index							
http://ospp.od.nih.gov/ecostudies/BRDPL Proj 2005.pdf							
2006-2007:	\$	388,000	\$	205,640	\$	593,640	35%

Dates: 1985-date Project Title: Various

PI: Various Source: Various

Type & Number: Direct support of postdocs or students in my laboratory by training

grants, individual awards, federal funds, foreign governments,

private sector companies, etc. Various numbers.

Direct Costs: ≈\$200,000 Indirect Costs: (unknown)

Dates: 1985-date Project Title: Various

Case 3:09-md-02100-DRH-PMF Document 2096-11 Filed 11/14/11 Page 9 of 36 Page ID

Case 3:09-md-02100-DRH-PMF Document 20968 *SEALED* Filed 11/14/11, Page 92 of 119
Page ID #16635 Filed 11/14/11, Page 92 of 119
Curriculum Vitae

PI:

Various Various

Source: Type & Number:

Institutional instrumentation grants for Harvard Medical School or

University of Cincinnati College of Medicine to which I contributed significantly as an author or co-PI, but was not PI. [Typically the PI

was a Dean or Dept. Head.] Various numbers.

Direct Costs:

Project Title:

≈\$3,000,000

Indirect Costs: (unknown)

Dates:

1985-date Not applicable Maggio, J.E.

PI: Source:

Sundry Donor Accounts from miscellaneous individuals,

organizations private sector companies, etc. Unrestricted research

support.

Type & Number:

Not applicable

Direct Costs:

\$46,146

Indirect Costs: \$3,392

Total Costs:

\$49,538

Predoctoral Support to JEM:

National Science Foundation (1976-78)

(grant number unknown)

NSF Fellowship

Direct Costs:

≈\$12,800

Indirect Costs: (unknown)

Postdoctoral Support to JEM:

Science and Engineering Research Council, UK (1981-82)

National Science Foundation (1982-83) North Atlantic Treaty Organization (1982-83) Muscular Dystrophy Association (1983-84)

(grant numbers unknown)

SERC (UK), NSF/NATO, MDA Fellowships

Direct Costs:

≈\$50,000

Indirect Costs: (unknown)

Dates:

1985-1994

Project Title:

Tachykinins and Tachykinin Receptors

PI:

Maggio, J.E.

Source:

NIH National Institute of Neurological Disorders & Stroke

Type & Number:

Research grant

R01-NS22961 -01 thru -09

Direct Costs:

\$908,333

Indirect Costs: \$731,890

Total Costs:

\$1,640,233

Dates:

1988-1992

Project Title:

Tachykinins and Nociception (project under Anesthesia Research

Center Grant)

PI:

Maggio, J.E. (Center Director: Miller, K.W.)

Source:

NIH National Institute of General Medical Sciences

Type & Number:

Research project under Center grant P50-GM15904 -22 thru -26

Direct Costs:

\$383,668 (Maggio project only) Indirect Costs: \$272,689

Case 3:09-md-02100-DRH-PMF Document 2096-11 Filed 11/14/11 Page 10 of 36 Page ID

Case 3:09-md-02100-DRH-PMF Document ** 2098** ** SEALED* Filed 11/14/11 Page 93 of 119
Page ID #16636 Filed 11/14/11 Page 93 of 119
Curriculum Vitae

Total Costs: \$656,357 (Maggio project only)

Dates:

1989

Project Title:

Novel Bioactive Peptides

PI:

Maggio, J.E.

Source:

Milton Fund of Harvard University

Type & Number:

Research grant

(number unknown)

Direct Costs:

\$6,000

Indirect Costs: (none)

Total Costs:

\$6,000

Dates:

1992-1996

Project Title:

Amyloid Peptides and Alzheimer's Disease Plagues

PI:

Maggio, J.E.

Source:

Institute of Chemistry in Medicine

Type & Number:

Research grant

(number unknown)

Direct Costs:

\$249,000

Indirect Costs: 149,400

Total Costs:

\$398,400

Dates:

1994-1997

Project Title:

Conformation and Activity of BA4(10-35)-NH₂

PI:

Maggio, J.E.

Source:

American Health Assistance Foundation

Type & Number:

Research grant

AD 94071

Direct Costs:

\$192.873

Indirect Costs: (none)

Total Costs:

\$192.873

Dates:

1994

Project Title:

NMR Relaxation Studies of ¹⁵N-labeled Peptides

PI:

Maggio, J.E.

Source:

Milton Fund of Harvard University

Type & Number:

Research grant

(number unknown)

Direct Costs:

\$6,000

Indirect Costs: (none)

Indirect Costs: \$251,679

Total Costs:

\$6,000

Dates:

1995-1997

Project Title:

Tachykinins and Nociception (project under Anesthesia Research

Center Grant)

PI:

Maggio, J.E. (Center Director: Miller, K.W.)

Source:

NIH National Institute of General Medical Sciences

Type & Number:

Research project under Center grant P50-GM15904 -28 thru -30

Direct Costs:

\$319,502 (Maggio project only)

\$3

Total Costs:

\$571,181 (Maggio project only)

Dates:

1995-2007

Project Title:

Amyloid Peptide Conformation and Amyloidosis

PI:

Maggio, J.E.

Source:

NIH National Institute of Aging

Case 3:09-md-02100-DRH-PMF Document 2096-11 Filed 11/14/11 Page 11 of 36 Page ID

Filed 11/14/11 Page 94 of 119 Case 3:09-md-02100-DRH-PMF Document 20969 *SEALED* Page ID #16637 Curriculum Vitae

Type & Number:

Research grant

R01-AG12853 -01 through -12 Indirect Costs: \$1,116,918

Direct Costs: Total Costs:

\$1,779,200 \$2,896,118

Dates:

1997-1998

Project Title:

Faculty Training in Structural Biology

PI:

Maggio, J.E.

Source:

University of Cincinnati

Type & Number:

Faculty Development Award for Department of Pharmacology and

Cell Biophysics

(number unknown) Indirect Costs: (none)

Direct Costs:

\$22,000

Total Costs:

\$22,000

Dates:

1999-2002

Project Title:

In vivo measurement of β-amyloid deposition

PI:

Maggio, J.E.

Source:

Alzheimer's Association

Type & Number:

Zenith Award Research grant

ZEN-99-1842

Direct Costs:

\$180,331

Indirect Costs: \$18,033

Total Costs:

\$198,364

CURRENT SUPPORT:

Dates:

2007-2008

Project Title:

Structure of AB Oligomers in Alzheimer's Disease

PI:

Maggio, J.E. (100% effort)

Source:

University of Cincinnati Sabbatical Leave

Type & Number:

Sabbatical Research Leave as Visiting Professor of Neurology,

Harvard Medical School, Boston, MA (laboratory of Dennis J. Selkoe) Direct Costs:

\$448,182 for 1 July 2007 thru 31 December 2008

Indirect Costs:

\$103,418 for 1 July 2007 thru 31 December 2008

Total Costs:

\$551,600 for 1 July 2007 thru 31 December 2008

DOCTORAL QUALIFYING and PRELIMINARY (CANDIDACY) EXAMINER

Student, Degree:

Eui CHOI, Ph.D.

Program:

Toxicology, Harvard School of Public Health

Date:

1987

Student, Degree:

John DeBIN, Ph.D.

Program:

Pharmacology, Harvard Medical School

Date:

1987

Student, Degree:

Benjamin STANGER, Ph.D.

Case 3:09-md-02100-DRH-PMF Document 2096-11 Filed 11/14/11 Page 12 of 36 Page ID

Case 3:09-md-02100-DRH-PMF Document 2096 ** SEALED* Filed 11/14/11 Page 95 of 119
Page ID #16638 Filed 11/14/11 Page 95 of 119
Curriculum Vitae

Program:

TRIAD (Interdepartmental), Harvard Medical School

Date:

1991

Student, Degree:

Nidhi WILLIAMS, Ph.D.

Program:

TRIAD (Interdepartmental), Harvard Medical School

Date:

1991

Student, Degree:

Roydon PRICE, Ph.D.

Program:

TRIAD (Interdepartmental), Harvard Medical School

Date:

1991

Student, Degree:

David GARBER, Ph.D.

Program:

TRIAD (Interdepartmental), Harvard Medical School

Date:

1991

Student, Degree:

Matthew ZALNASKY, Ph.D.

Program:

TRIAD (Interdepartmental), Harvard Medical School

Date:

1991

Student, Degree:

Dong LIU, Ph.D.

Program:

TRIAD (Interdepartmental), Harvard Medical School

Date:

1993

Student, Degree:

Carlos PETOSA, Ph.D.

Program:

TRIAD (Interdepartmental), Harvard Medical School

Date:

1993

Student, Degree:

Paul TOLENTINO, Ph.D.

Program:

Neuroscience, Harvard Medical School

Date:

1993

Student, Degree:

Martha SOTO, Ph.D.

Program:

Neuroscience, University of Cincinnati College of Medicine

Date:

1999

Student, Degree:

Alicia GARDNER, Ph.D.

Program:

Pharmacol. Cell Biophys., University of Cincinnati College of Medicine

Date:

1999

Student, Degree:

Craig BOLTE, Ph.D.

Program:

Pharmacol. Cell Biophys., University of Cincinnati College of Medicine

Date:

2001

Student, Degree:

Keith GADDIE, Ph.D.

Program:

Pharmacol. Cell Biophys., University of Cincinnati College of Medicine

Date:

2005

Case 3:09-md-02100-DRH-PMF Document 2096 * SEALED* Filed 11/14/11 Page 96 of 119 Page ID #16639

Student, Degree:

Arturo Maldonado, Ph.D.

Program:

Developmental Biology, University of Cincinnati College of Medicine

Curriculum Vitae

Date:

2006

THESIS ADVISORY COMMITTEES

Student, Degree:

Kee PARK, Ph.D. (not completed)

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Mentor:

Armen TASHJIAN

Dates:

1985-1986

Student, Degree:

Steven KING, Ph.D.

Program:

Physiology., Harvard Medical School

Mentor: Dates: Tom WILSON 1985-1988

Student, Degree:

Michael SCHWARTZCHILD, Ph.D.

Program:

Pharmacology, Harvard Medical School

Mentor:

Richard ZIGMOND

Dates:

1986-1988

Student, Degree:

Mary GROSS, Ph.D.

Program:

Toxicology, Harvard School of Public Health

Mentor:

William TOSCANO

Date:

1986-1989

Student, Degree:

John DeBIN, Ph.D.

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Mentor:

Gary STRICHARTZ and John MAGGIO

Date:

1986-1992

Student, Degree:

Eui CHOI, Ph.D.

Program:

Toxicology, Harvard School of Public Health

Mentor:

William TOSCANO

Date:

1987-1990

Student, Degree:

Kimberly BIRCH, Ph.D.

Program:

Toxicology, Harvard School of Public Health

Mentor:

Jordan POBER

Date:

1987-1992

Student, Degree:

Kimberly WAGNER, Ph.D.

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Mentor:

Armen TASHJIAN

Date:

1987-1994

Case 3:09-md-02100-DRH-PMF Document 2096 *SEALED* Filed 11/14/11 Page 97 of 119
Page ID #16640 Full Curriculum Vitae

Student, Degree:

Dale GOAD, Ph.D.

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Mentor:

Armen TASHJIAN

Dates:

1989-1995

Student, Degree:

Michael DUNN, Ph.D.

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Mentor:

David MOORE

Date:

1990-1992

Student, Degree:

Margo UTTERBACK, Ph.D. (did not complete)

Program:

Neuroscience, Harvard Medical School

Mentor:

Xandra BREAKFIELD

Date:

1992-1993

Student, Degree:

Paul TOLENTINO, Ph.D.

Program:

Neuroscience, Harvard Medical School

Mentor:

Lydia VILLA-KOMAROFF

Date:

1993-1994

Student, Degree:

Rai DASH, Ph.D.

Program:

Pharmacol. Cell Biophys., University of Cincinnati College of Medicine

Mentor:

Litsa KRANIAS

Date:

1997-1999

Student, Degree:

Alicia GARDNER, Ph.D.

Program:

Pharmacol, Cell Biophys., University of Cincinnati College of Medicine

Mentor:

Mark OLAH

Date:

1998-2003

Student, Degree:

Mark WILLIAMS, Ph.D.

Program:

Pharmacol. Cell Biophys., University of Cincinnati College of Medicine

Mentor:

Joseph SOLOMKIN

Date:

1998-2000

Student, Degree:

Shengwen ZHANG, Ph.D.

Program:

Neuroscience, University of Cincinnati College of Medicine

Mentor:

Lei YU

Date:

1999-2002

Student, Degree:

Hoa LE, Ph.D.

Program:

Pharmacol, Cell Biophys., University of Cincinnati College of Medicine

Mentor: Date: Scott BELCHER 2002-2003

Student, Degree:

Alex DVORETSKY

Case 3:09-md-02100-DRH-PMF Document 2096-11 Filed 11/14/11 Page 15 of 36 Page ID

Case 3:09-md-02100-DRH-PMF Document 2096 ** SEALED* Filed 11/14/11 Page 98 of 119
Page ID #16641 Filed 11/14/11 Page 98 of 119
Curriculum Vitae

Program: Molec. Genetics, Biochem. Microbiol., University of Cincinnati College

of Medicine

Mentor: Paul ROSEVEAR

Date: 1999-2004

Student, Degree: Beth CHANEY, Ph.D.

Program: Molec. Genetics, Biochem. Microbiol., University of Cincinnati College

of Medicine

Mentor: Mark RANCE
Date: 2001-2005

Student, Degree: Eric JOHNSON, Ph.D.

Program: Molec. Genetics, Biochem. Microbiol., University of Cincinnati College

of Medicine

Mentor: Mark RANCE
Date: 2001-2005

Student, Degree: Keith GADDIE

Program: Pharmacol. Cell Biophys., University of Cincinnati College of Medicine

Mentor: Terry KIRLEY
Date: 2006-date

DISSERTATION DEFENSE EXAMINER

Student, Degree: David PRESKY, Ph.D.

Program: Pharmacology, Harvard Medical School.

Date: 1985

Student, Degree: Sheridan SWOPE, Ph.D.

Program: Pharmacology, Harvard Medical School

Date: 1986

Student, Degree: Michael SCHWARTZCHILD, Ph.D.

Program: Pharmacology, Harvard Medical School

Date: 1988

Student, Degree: Timothy TURNER, Ph.D.

Program: Biol. Chem. Molec. Pharmacol., Harvard Medical School

Date: 1988

Student, Degree: Steven GREENBERG, M.D.

Program: Medicine (Harvard University-Massachusetts Institute of Technology

Program in Health Science and Technology)

Date: 1988

Case 3:09-md-02100-DRH-PMF Document 2096-11 Filed 11/14/11 Page 16 of 36 Page ID

Case 3:09-md-02100-DRH-PMF Document 2096 * SEALED* Filed 11/14/11 Page 99 of 119
Page ID #16642 Filed 11/14/11 Page 99 of 119
Curriculum Vitae

Student, Degree:

Ravi KUMAR, Ph.D.

Program:

Chemistry, Harvard University

Date:

1991

Student, Degree:

John DeBIN, Ph.D.

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Date:

1992

Student, Degree:

Junping YANG, Ph.D.

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Date:

1993

Student, Degree:

Peter YORGEY, Ph.D.

Program:

Microbiology, Harvard Medical School

Date:

1993

Student, Degree:

Albert HUNG, Ph.D.

Program:

Neurobiology, Harvard Medical School

Date:

1994

Student, Degree:

ree: Kimberly WAGNER, Ph.D.

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Date:

1994

Student, Degree:

Dale GOAD, Ph.D.

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Date:

1995

Student, Degree:

Degree: Bomie HAN, Ph.D.

Program:

Biol. Chem. Molec. Pharmacol., Harvard Medical School

Date:

1995

Student, Degree:

Eugene LIT, M.D.

Program:

Medicine, Harvard Medical School

Date:

1995

Student, Degree:

John McHUGH, M.D.

Program:

Medicine, Harvard Medical School

Date:

1995

Student, Degree:

E. Ravi KUMAR, Ph.D.

Program:

Chemistry & Life Sciences, IIT Bombay, Powai, India

Date:

1996

Student, Degree:

Mark WILLIAMS, M.D., Ph.D.

Program:

Pharmacol. Cell Biophys., University of Cincinnati College of Medicine

Date:

2000

Filed 11/14/11 Page 100 of 119 Case 3:09-md-02100-DRH-PMF Document 209696*SEALED* Page ID #16643 Curriculum Vitae

Student, Degree:

Shengwen ZHANG, Ph.D.

Program:

Neuroscience, University of Cincinnati College of Medicine

Date:

2002

Student, Degree:

Alicia GARDNER, Ph.D.

Program:

Pharmacol, Cell Biophys., University of Cincinnati College of Medicine

Date:

2003

Student, Degree:

Cynthia SONDAG, M.A.

Program:

Biology, University of North Dakota

Date:

2005

Student, Degree:

Beth CHANEY, Ph.D.

Program:

Molec. Genetics, Biochem. Microbiol., University of Cincinnati College.

of Medicine

Date:

2005

Student, Degree:

Eric JOHNSON, Ph.D.

Program:

Molec. Genetics, Biochem. Microbiol., University of Cincinnati College

of Medicine

Date:

2005

SELECTED INVITED TALKS

[I have not been diligent about keeping records of the invited talks I have given during my career, so the following list is incomplete, except for 1996.]

1981-1995 (incomplete list):

Biochemistry of G-Protein Coupled Receptors Symposium Boston College (Biochemistry) Boston University (Pharmacology) Cambridge NeuroScience (Discovery) Children's Hospital (Neurology Research) Connecticut Mental Health Center (Psychiatry)

Diatech Diagnostics

Duke University Medical School (Pharmacology)

Eli Lilly (Neurology/Urology) Gliatech

Gordon Conference (Neuroinflammation)

Harvard Medical School (Gastroenterology) Harvard Medical School (Neurology)

Harvard Medical School (Pharmacology) Hereditary Disease Foundation

Philadelphia, PA

Chestnut Hill, MA Boston, MA

Cambridge, MA Boston, MA

New Haven, CT

Derry, NH Durham, NC

Indianapolis, IN Cleveland, OH Saxton's River, VT

Boston, MA Boston, MA

Boston, MA Los Angeles, CA Case 3:09-md-02100-DRH-PMF Document 200697*SEALED* Filed 11/14/11 Page 101 of 119
Page ID #16644 Filed 11/14/11 Page 101 of 119
Curriculum Vitae

Hoffmann-La Roche (Neuroscience Research)

International Symposium on Nonmammalian Peptides

International Tachykinin Meeting International Tachykinin Meeting International Tachykinin Meeting

Lederle/Cyanamid

Merck and Co. (Symposium)
Merck and Co. (Neuroscience)

Middle East Technical University (Chemistry)

Ohio State University School of Medicine (Biochemistry)

Pfizer (Neurological Diseases)

Pharmacia (Oncology)

Purdue University (Biochemistry)
Society for Neuroscience (multiple)

Sterling/Kodak (Nociception)

Tachykinins in the Nervous System Conference Tufts University School of Medicine (Anesthesia) Tufts University School of Medicine (Neuroscience)

UC Davis (Biochemistry)
UC Davis (Neuroscience)

UCLA (Center for Ulcer Research and Education)

UCSF (Medicinal Chemistry)
USUHS (Pharmacology)

University of Alberta (Pharmacology)
University of Alberta (Protein Center)
University of Cambridge (Chemistry)

University of Minnesota (Neurology/Dentistry)
University of North Carolina (Biochemistry)
US Army Research Laboratories (Materials)
Wayne State University (Pharmacology)

Winter Conference on Brain Research (multiple)

Wyeth-Ayerst

Nutley, NJ
Firenze, Italy
Montreal, Canada
Dublin, Ireland
Worcester, MA
Pearl River, NY
Rahway, NJ
West Point, PA
Ankara, TURKEY
Columbus, OH
Groton, CT
Milan, Italy
W. Lafayette, IN

various

Rensselaer, NY London, UK Boston, MA Boston, MA Davis, CA Davis, CA

Los Angeles, CA San Francisco, CA

Betheda, MD

Edmonton, Canada Edmonton, Canada Cambridge, UK Minneapolis. MN Chapel Hill, NC Natick, MA Detroit, MI various

Pearl River, NY

1996 (believed complete):

FASEB Conference (Abnormal Protein Folding)

Roche Bioscience (Analgesia)

University of California, Irvine (Biochemistry)

University of California, San Francisco (Neurobiology)
University of California, Los Angeles (Neurology)

Athena Neurosciences (Alzheimer's Disease Research)

New York University (Pathology)
International Tachykinin Meeting
University of Graz (Pharmacology)
Hoffmann-La Roche (Dementia)
University of Oxford (Pharmacology)
Merck Harlow (Neuroscience)

University of Cambridge (Chemistry)

Los Angeles, CA S. San Francisco, CA New York, NY

Copper Mountain, CO

Irvine, CA

Palo Alto, CA

Firenze, Italy Graz, Austria Basel, Switzerland

San Francisco, CA

Oxford, UK Harlow, UK Cambridge, UK

Case 3:09-md-02100-DRH-PMF Document 2096-11 Filed 11/14/11 Page 19 of 36 Page ID

Filed 11/14/11 Page 102 of 119 Case 3:09-md-02100-DRH-PMF Document 209698*SEALED* Page ID #16645 Curriculum Vitae

University of Dundee (Neuroscience) Dundee, UK University of Dundee (Biochemistry) Dundee, UK SmithKline Beecham (Neuropathology) Welwyn, UK Society for Neuroscience (Neurological Diseases) San Diego, CA Texas A&M University (Chemistry/Biochemistry) College Station, TX George Washington University (Pharmacology) Washington, DC Massachusetts General Hospital (Anesthesia) Boston, MA University of Cincinnati (Pharmacology) Cincinnati, OH

1997-date (incomplete list):

Wright State University School of Medicine (Pharmacology) Dayton, OH Massachusetts AD Research Symposium Boston, MA University of Kentucky (Biochemistry) Lexington, KY University of Cincinnati (Chemistry) (multiple) Cincinnati, OH

Winter Conference on Brain Research (multiple) various

Winter Neuropeptide Conference Vail, CO Keystone Symposium (Molecular Mechanisms in AD) Purgatory, CO Leiden, Netherlands

University of Leiden (Boerhave Symposium) University of Cincinnati College of Pharmacy

Society for Neuroscience (multiple)

FASEB Conference (Amyloid, Protein Assembly Processes) Copper Mountain, CO

Federation of European Neuroscience Societies Indian Institute of Science (Organic Chemistry)

American Society of Neurochemistry

Northwestern University Medical School (Pharmacology)

First Indian Symposium of the Protein Society Indian Institute of Science (Organic Chemistry) Cornell-Weill College of Medicine (Pharmacology) University of Cincinnati College of Medicine (Cell Biology)

Cincinnati, OH Medical College of Ohio (Pharmacology) Toledo, OH

Merck and Co.

Amgen (Neuroscience) (multiple)

Case Western Reserve University (Neuroscience) Case Western Reserve University (Biochemistry)

NSF Membrane Applied Science and Technology Center

Procter and Gamble Pharmaceuticals (multiple)

Temple University School of Medicine (Pharmacology) American Chemical Society, local chapter (multiple) University of Cincinnati College of Medicine (Physiology) Temple University School of Medicine (Biochemistry)

University of Kentucky (Center on Aging) University of Wyoming (Neuroscience)

University of Minnesota (Neurology) / Mpls VA GRECC

Alzheimer's Association Summer Symposium

West Point, PA

Cincinnati, OH

Brighton, UK

Chicago, IL

Chicago, IL

Delhi, India

Mumbai, India

New York, NY

Bangalore, India

various

Thousand Oaks, CA

Cleveland, OH Cleveland, OH Cincinnati, OH Mason, OH Philadelphia, PA SW Ohio (various) Cincinnati, OH Philadelphia, PA

Laramie, WY Minneapolis, MN Erlanger, KY

Lexington, KY

NIH TRAINING PROGRAMS, Harvard Medical School (1985-1997):

Pharmacological Sciences (Associate)

Endocrinology (Associate, Executive Committee)

Neuroscience (Associate, Admissions, Appointments, Steering Committee)

Developmental Neurology (Associate)

Molecular Biophysics (Associate)

Neurological Sciences Academic Development (Associate)

Biological Sciences in Public Health (Associate)

NIH TRAINING PROGRAMS, University of Cincinnati College of Medicine (1997-date):

Neuroscience (Associate)

Cardiovascular Biology (Associate)

Physician-Scientist (M.D.-Ph.D.) Training Program (Executive Committee)

SELECTED COMMITTEES

[Student thesis, qualifying, defense, advisory, etc., committees – see above.]
[Judge at many secondary school, undergraduate, graduate, postdoctoral, etc., research or poster presentation contests – not listed.]

Departmental Committees

Harvard Medical School, Department of Pharmacology (1985-1987) Facilities, Admissions, Instrumentation, Faculty Search

Harvard Medical School, Department of Biological Chemistry and Molecular Pharmacology (1987-1997)

Facilities (various), Biopolymers (1989-1997; Chair, 1993), NMR (1987-1989), Instrumentation, Faculty Search (1990-1995; Chair, 1992-93), Steering (1987-1990), Course Planning (1991-1994), Curriculum (various)

University of Cincinnati College of Medicine, Department of Pharmacology and Cell Biophysics (1997-date)

[As Director (Chair) 1997-2007, I was an ex officio member of all department committees except the Committee on Appointments, Reappointments, Promotions and Tenure, and an active member of many department committee.] For 2007-08, I was on sabbatical leave and serve on no departmental committees.

Committee on Appointments, Reappointments, Promotions, and Tenure (2009-)
Committee on Developing MS degree program in Pharmacology and Biotechnology (2009-)

College Committees

Harvard Medical School (1985-1997)

Neuroscience Training Program Admissions (1988-1992, 1995-1997)

Curriculum Vitae

Neuroscience Training Program Steering (1990-1997)

Biopolymers Committee (1993-4)

Neuroscience Training Program Appointments (1993-1997)

Endocrinology Program Executive Committee (1987-1993)

New Pathway Medical Pharmacology Curriculum Committee (1986-1987)

Ad Hoc Advisory Committee on NIH (1994-1997)

Faculty Fellowships Committee (1995-1997)

University of Cincinnati College of Medicine and UC Medical Center (1997-date)

Basic Science Chairs (1997-2007)

Faculty Council (1997-2007)

Faculty Fellowships Committee (1999-2003)

Year II Curriculum Committee (1998-2003, 2006-2007)

Medical Student Promotion Board (1998-2003, 2006-2007)

Medical Center Fund Executive Committee (1998-2007)

Educational Coordinating Committee (1999-2005)

Physician Scientist Training Program (M.D.-Ph.D. Program) Internal Advisory Committee (1999-2006)

Expression Technology Steering Committee (1999-2004)

Postdoctoral Scholars Advisory Committee (1999-2004)

College of Medicine Space Committee (2002-2005)

Space Utilization Committee (2003-2004)

Dean's Steering Committee (2000-2005)

LCME (Liaison Committee on Medical Education; accreditation) Task Force (2001-2003)

LCME Governance Committee (2001-2003)

LCME Site Visit Committee (2003)

Dean's Discovery Fund Committee (internal grant proposal review), various subcommittees (Chair, 2003-2004)

Department/Director Review Committee reviewing the Department of Molecular and Cellular Physiology and its Director, David Millhorn (Chair, 2001)

Proteomics/Genomic Report Group (2001)

Research Issues Task Force (1999)

Millennium Planning Committee (1998-2003)

Millennium Planning Committee, Research Subcommittee (Chair, 1999-2000)

Millennium Planning Committee, Growing Our Own Task Force (1999-2000)

Department/Director Review Committee reviewing the Department of Molecular Genetics, Biochemistry and Microbiology and its Director, Jerry Lingrel (Chair, 2002)

Process and Criteria for Department/Director Reviews Committee (Chair, 2002)

Department/Director Review Committee reviewing the Department of Cell Biology. Neurobiology and Anatomy and its Director, Peter Stambrook (2003)

Dean's Education Cabinet (2004)

Search Committee for Director of Medical Center Sponsored Programs (2004)

Bioinformatics Computational Infrastructure Working Group (co-Chair, 2006-7)

Clinical and Translational Research Awards Review Committee (2009)

Curriculum Vitae

University Committees

Harvard University (1976-1997)

Division of Medical Sciences Graduate Program Reevaluation Committee (1991-1992)

Conduct of Science Committee (1993-1994)

T. T. Hoopes Prize Committee (1990-1997)

T. T. Hoopes Prize, Natural Sciences Subcommittee (1992-1997)

Molecular Biophysics Committee (1991-1997)

Biological Sciences in Public Health (1993-1996)

University of Cincinnati (1997-date)

College of Pharmacy Enhancement Task Force (1998-1999)

Expression Technology Steering Committee (1998-2004)

Mass Spectrometry Committee (1999-2001)

Biomedical Engineering Task Force, Chair (2000)

Search Committee for Interim Head of Biomedical Engineering, Co-Chair (2000)

Search Committee for Head of Biomedical Engineering, Co-Chair (2001)

Search Committee for Senior VP & Provost for Health Affairs (2002-2003)

Proteomics/Metabolomics Task Force (2005-2006)

NSF IGERT Program in Bio-Applications of Membrane Science and Technology Internal Advisory Committee (2005-date)

Academic Technology Planning Committee (2006-date)

State/Regional Committees

Alzheimer's Association (Greater Cincinnati Chapter)

Professional Advisory Council (1998-date)

Board of Trustees (1999-date)

President (2001-2003)

Vice-President, Research (2004-2005)

Executive Committee (2001-2005)

Governance Committee (1999-2005)

Member (1999-2006)

Advisory Member (2006-date)

This non-profit serves about three dozen counties in southern Ohio and northern Kentucky. It has a staff of about thirty and an annual budget of about \$1.5m.

National/International Committees

National Institutes of Health (NIH) Study Sections:

Experimental Cardiovascular Sciences (ECS), April 1987

Small Business Innovation Research (SSS-7/E), March 1988

AIDS and Related Research (ARR-5), December 1988

Neurological Sciences (NLS-1), June 1990

Curriculum Vitae

Neurological Sciences (NLS-1), October 1990

Neurological Sciences (NLS-1), June 1991

Neurological Sciences (NLS-1), October 1991

Neurological Sciences (NLS-1), October 1992

Neurological Sciences (NLS-1), October 1993

Neurological Sciences (NLS-1), October 1994

Neurology (NEUB-1), June 1995

Molecular, Developmental & Cellular Neuroscience (MDCN-5), October 2000

Brain Disorders and Clinical Neuroscience (BDCN-3), October 2001

Hematology (HEM-2), March 2002

Molecular, Developmental & Cellular Neuroscience, (MDCN-5), March 2002

Structure and Function of Developmental Regulators in the Nervous System (MDCN-2), December 2002

Peptide Drug Transport (CVA, Chair), March 2003

Brain Disorders and Clinical Neuroscience (BDCN-3), June 2003

Cell Death and Inflammation in the Nervous System (CDIN), March 2005

Alzheimer Pathology and Therapeutic Approach (BDCN-D), April 2005

Cell Death and Injury in Chronic Neurodegeneration (CDIN-D), June 2005

Assay Development for High Throughput Molecular Screening (Roadmap) (ZNS1 SRB-G), March 2006

Cell Death and Inflammation in the Nervous System (CDIN), March 2006

Cell Death in Neurodegeneration (CDIN), October 2006

Cell Death and Injury in Neurodegeneration (CDIN), (ZRG1 CDIN-T 02S) June 2007

Cell Death and Injury in Neurodegeneration (CDIN), (ZRG1 CDIN-T 03S) October 2007

Fellowships: Biophysical and Physiological Neuroscience (F03B-H (20) L). June 2009

Emerging Technologies and Training in Neuroscience (ETTN-A), Challenge Grants Panel #12, July 2009

Selected Other National/International Peer Review Service:

National Science Foundation

Alzheimer's Association

American Foundation for Aging Research

American Health Assistance Foundation

Institute for Medical Research

The Israel Science Foundation

New Zealand Neurological Foundation

Retirement Research Foundation

Midwestern Association of Graduate Schools

Alzheimer's Disease Research Center, University of Kentucky (Lexington)

Alzheimer's Association

Board of Directors (2005-date)

Chapter Relations Committee (2006-date)

Program Committee (2007-date)

Page ID #16650

Curriculum Vitae

Concern and Awareness Workgroup (2007-date) Governance and Nominating Task Force (2008-date)

This national non-profit, headquartered in Chicago, Illinois, supports research, care and advocacy for Alzheimer's disease. It has a national staff of about two hundred fifty and an annual budget of about \$120m. In addition, about eighty local chapters (total budgets about \$90m) serve states or regions.

Descriptions of Selected Committee Assignments

Biomedical Engineering Task Force (2000)

I chaired this group of two dozen faculty and administrators from the East (Medical Center) and West (Arts and Sciences) Campuses of the University of Cincinnati who created the new Department of Biomedical Engineering, the first new academic department at UC in more than two decades. Because the new department belongs to two Colleges (Engineering and Medicine) on separate campuses under separate Provosts, creating its governance structure and financial models was challenging. After the Task Force report was complete and its recommendations reported to the Provosts on both campuses, I presented the proposal for department creation to Chairs, Faculty Council, and Deans. After acceptance at these levels, the new department was approved by the Provosts, President and the Board of Trustees. UCBME opened its doors officially in 2001.

Later, I chaired or co-chaired the search committees for the interim and permanent Head of the new department, and assisted with its early faculty recruitment. When the permanent Head of BME took office (2003), I distanced myself from the department, but Provosts and Deans still refer to me as "the godfather of BME."

Millennium Plan Committees and Task Forces (1998-2006)

I was involved in several Millennium Plan committees and subcommittees from the early planning stages, and chaired the group that developed the original financial models. I also chaired some of the recruiting groups. The Millennium Plan was an initiative to double the size of the University of Cincinnati Medical Center's research-active faculty from 2000 levels.

Department/Director Performance Review Committees (2000-2003)

I have served on three Department Review / Director's Performance Review Committees at the University of Cincinnati College of Medicine (Molecular Genetics, Biochemistry and Microbiology and its Chair, J. Lingrel; Cell Biology, Anatomy and Neuroscience and its Chair, P. Stambrook; Molecular and Cellular Physiology and its Chair, D. Millhorn). I chaired the Reviews of two of those departments (Molecular Genetics; Physiology). These reviews encompass all aspects of the departments under review; they include outside as well as inside referees, a site visit, and extensive interviews, as well as crafting a final report to the Dean. I also chaired the committee which reconsidered and revised the processes and criteria for such reviews at the UC College of Medicine in 2002.

Provost and Senior Vice-President for Health Affairs Search Committee (2003)

I was appointed by the President of the University to represent the Medical Center department chairs (clinical and basic science) on this committee to select the next director of the Academic Health Center.

CORE FACILITIES

From 1997-2006, I oversaw two UC College of Medicine Core facilities, one for *ex vivo* working rodent hearts and one for two-dimensional protein separations and proteomics. I started the latter facility in 2003.

LANGUAGES

English (native), Spanish (read, write, speak), German (scientific reading)

CONSULTING

government, non-profits, big pharma, biotechnology, patent law, liability law

SELECTED TEACHING ASSIGNMENTS

For Undergraduates

Mathematics Ar. Introductory Algebra.

Harvard College

Teaching Fellow, 1975-1976

(full responsibility for a daily class of ≈15, and for integration with other sections)

Biochemistry 10. Introduction to Biochemistry.

Harvard College

Full year introductory course for Biochemistry concentrators, other science concentrators, and premeds.

Teaching Fellow, 1974-75 (one weekly discussion section of ≈15)

Head Teaching Fellow, 1976-1977 (one section plus oversight of other Teaching Fellows)

Instructor, 1979-80 (day to day course management, curriculum and exam oversight for a class of ≈ 120)

Kirkland House, Harvard College

Resident Tutor in Biochemistry, 1977-1981 (small group discussions, course sections, student advising, etc., within the undergraduate House system)

Assistant Senior Tutor, Assistant Dean, 1979-81 (administrative responsibility for housing, science programs, student advising, etc., within the undergraduate House system)

Page ID #16652

Curriculum Vitae

Chemistry 20. Organic Chemistry.

Harvard College

Full year introductory course for Chemistry and Biochemistry concentrators, required for premeds.

Teaching Fellow, 1976-1977 (one weekly discussion section of ≈15 students)

Chemistry 99. Tutorial, Introduction to Research. Harvard College One-on-one supervision of senior undergraduate research projects. Teaching Fellow, 1977-1978

For Graduate Students

Pharmacology 700. Introductory Pharmacology. Harvard Medical School Traditional pathway introductory medical pharmacology for second year medical students and dental students and first/second graduate students.

Conference Leader, 1986-1988 (one-two weekly discussion section of ≈12 medical students and graduate students, or graduate students only)

Pharmacology 210. Neuropharmacology. Harvard Medical School Advanced course in neuropharmacology for ≈15 graduate students. Lecturer, 1985-1989 Course Co-Director (with R. Zigmond), 1987-1989

Biological Chemistry and Molecular Pharmacology 201. Protein Structure and Function. Harvard Medical School Core course for all (≈65) graduate students in interdepartmental (Triad) programs. Course Co-Originator (with R. Rando), 1989 Course Co-Director (with R. Rando), 1989-1992 Lecturer, 1989-1993

Biological Chemistry and Molecular Pharmacology 202. Membranes, Receptors, and Signal Transduction. Harvard Medical School Advanced course; lectures and paper discussions for ≈35 graduate students. Course Originator, Course Director, Lecturer, Conference Leader, 1988-89

Biological Chemistry and Molecular Pharmacology 211. Advanced Topics in Membrane Structure and Function. Harvard Medical School Advanced course; lectures and paper discussions for ≈12 graduate students. Lecturer, Conference Leader, 1993-1997

Biological Chemistry and Molecular Pharmacology 705. Principles of Pharmacology. Harvard Medical School

Introductory course (New Pathway) stressing basic pharmacology more than clinical therapeutics, for ≈160 first year medical students, ≈8 dental students and ≈10 first/second vear graduate students.

Course Co-Originator (with D. Golan), 1989

Lecturer, 1989-1997

Division of Medical Sciences xxx. Conduct of Science. Harvard Medical School Required course for graduate students in all programs.

Conference Leader, Facilitator for a group of ≈8 students, 1993-1996

Molecular Genetics, Biochemistry and Microbiology 26-MG-719.

University of Cincinnati College of Medicine

Protein Structure, Function and Engineering

Advanced course; lectures and papers discussions for ≈15 graduate students Lecturer, 1998-2001

Neurobiology 206. Neuropharmacology. Harvard Medical School
Advanced neuropharmacology course for ≈15 second year graduate students.
Course Co-Originator (with J. Cohen), 1994
Course Co-Director (with J. Cohen) 1994-1997
Lecturer, 1994-1997

Pharmacology 26-MCBP-805,806,807. Graduate Seminars in Pharmacology
University of Cincinnati College of Medicine
Weekly presentations/discussions of published papers or current research by

graduate students (≈20) and faculty.

Occasional presenter, regular discussant, 1997-2007

Pharmacology 26-MCBP-823. Topics in Molecular and Cellular Pharmacology University of Cincinnati College of Medicine

Advanced course of lectures and paper discussion for ≈6 first or second year graduate students.

Lecturer, Facilitator, 1998-2006

JEM topics include proteomics, protein chemistry, mass spectroscopy

Pharmacology 26-MCBP-831. Receptor Pharmacology

University of Cincinnati College of Medicine

Advanced course for 5 to 25 first and second year graduate students.

Lecturer, Facilitator, 1998-date

JEM topics include structural biology methods and applications

Pharmacology 26-MCBP-903. Special Topics in Pharmacology

University of Cincinnati College of Medicine

Advanced topics course for ≈10 first-fourth year graduate students.

Lecturer, Facilitator, 2004-2007

JEM topics include neuropharmacology, neurodegenerative diseases

Pharmacology 26-MCBP-823. Integrated Molecular Pharmacology and Medicine University of Cincinnati College of Medicine

Advanced course of lectures and paper discussion for ≈6 first or second year graduate students (5 credits).

Page ID #16654

Curriculum Vitae

Lecturer, Facilitator, 2008-

JEM topics include targeted drug design, drug discovery/development in the Molecular Mechanisms and Contemporary Therapeutics block of the course.

For Medical Students

Pharmacology xxx. Hormones and Receptors. Harvard Medical School New Pathway (case-based) small group discussion class on endocrine pharmacology, cases focusing on insulin, diabetes, signaling. For ≈12 first year medical students.

Class Originator, Discussion Leader, 1986-1987

Pharmacology 700. Introductory Pharmacology. Harvard Medical School Introductory medical pharmacology and therapeutics (Traditional Pathway) for second year medical students dental students and first/second graduate students. Conference Leader, 1986-1988 (one-two weekly discussion sections of ≈12)

Biological Chemistry and Molecular Pharmacology 705. Principles of Pharmacology. Harvard Medical School

Introductory principles course (New Pathway) stressing basic pharmacology rather than clinical therapeutics, for ≈165 first year medical students and first/second year graduate students.

Course Co-Originator (with D. Golan), 1989 Lecturer, 1989-1997

Medical Pharmacology and Therapeutics 26-MCBP-841, 842, 843, 844.

University of Cincinnati College of Medicine

Full-year course in medical pharmacology and clinical therapeutics for ≈160 second year medical students and a few second year graduate students. During my term as Course Director, the student popularity of the course rose from 1.9 (an historic low and an LCME point-of-concern) to 3.8 (exceeding the average of Year II courses) of 5.

Lecturer, 1997-date

Course Director, 1998-2003, 2006-07

Course Co-Director (with R. Millard), 2003-2005

Tutorial Facilitator, 1999-2007

JEM Lecture Topics include: Introduction to Pharmacology, History of Pharmacology, Drug Discovery; FDA and Drug Regulation; Pharmacodynamics (2-3 lectures), ADME; Drug Delivery to Compartments; Pharmacokinetics (2-3 lectures); Autonomic Pharmacology (3-5 lectures); Adrenergic Pharmacology (2-4 lectures); Dopamine Pharmacology and Parkinson's Disease; Introduction to Neuropharmacology; Antidepressants: Antipsychotics: Opioids and Analgesia, Insulin and Oral Antihyperglycemics. During my years as Course Director, Pharmacology was the subject in which UCCOM students scored consistently highest (or top three) on the Step I Boards.

I have won Honorable Mentions (top five) for Golden Apple Awards for medical student teaching at both Harvard Medical School and UC College of Medicine.

Page ID #16655

Curriculum Vitae

TRAINEES

Undergraduates, Research Assistants, etc.

Name:

Eric LILLY, M.D.

Status/Dates:

Undergraduate (Wake Forest)

1986

Project/Duties:

Summer Research

Went on to:

araduated Wake Forest (B.A.)

graduated Duke Medical School (M.D.)

Name:

José CÓRDOVA, Ph.D.

Status/Dates:

Research Assistant

1986-1988

Project/Duties:

Went on to:

Tissue Culture, Receptor Binding, Radioimmunoassay

graduated Yale School of Public Health (Ph.D., Tropical Health)

Faculty Member, University of Chile, Santiago

Name:

Paul BLANCHARD, M.D.

Status/Dates:

Undergraduate (Univ. Massachusetts, Amherst)

1987

Project/Duties:

Summer Research

Went on to:

graduated Univ. Pennsylvania Medical School (M.D.)

Residency at Beth Israel Hospital, Boston

Private practice, Anesthesia

Name:

Kay SILVESTRI

Status/Dates:

Undergraduate (M.I.T.)

1987

Project/Duties:

Summer Research

Went on to:

graduated M.I.T. (B.S.)

Name:

Susie GRANT

Status/Dates:

Undergraduate (Columbia)

1989

Project/Duties:

Summer Research

Went on to:

graduated Columbia (B.A.)

Name:

James CHEN, Ph.D.

Status/Dates:

Undergraduate (Harvard)

1989

1990

Project/Duties:

Summer Research

Went on to:

graduated Harvard University (Ph.D., Chemistry)

Name:

Steven POLOMOSCANIK

Status/Dates:

Research Assistant

Project/Duties:

Immunoassays

Went on to:

Laidlaw, Inc.

Name:

AI LOCKE

Case 3:09-md-02100-DRH-PMF Document 2096-11 Filed 11/14/11 Page 30 of 36 Page ID

Case 3:09-md-02100-DRH-PMF Filed 11/14/11 Page 113 of 119 Document 209609*SEALED* Page ID #16656 Curriculum Vitae

Research Assistant Status/Dates: 1991

Project/Duties: Tissue Culture, immunochemistry Went on to: NE Deaconess Hospital

Name: Maxwell MENG, M.D.

Status/Dates: Undergraduate (Harvard) 1991 Project/Duties: Undergraduate Thesis

Went on to: graduated Johns Hopkins Medical School (M.D.)

Name: Steven CROWLEY, M.D. Status/Dates: Undergraduate (Harvard) 1991

Project/Duties: Summer Research

Went on to: graduated Emory University Medical School (M.D.)

Name: Annie SUH, M.D. Undergraduate (Harvard) Status/Dates: 1991

Project/Duties: Summer Research

Went on to: graduated Harvard Medical School (M.D.)

Name: Todd BRENNER 1993

Status/Dates: Undergraduate (Brandeis) Undergraduate Thesis Project/Duties:

Went on to: unknown

Name: Joan JENNINGS Status/Dates: Research Assistant 1992-1997

Project/Duties: Autoradiography, radioimmunoassay

Went on to: (retired)

Name: Margarita MARNERAKIS

Status/Dates: Research Assistant 1992-1994 Project/Duties: Tissue culture, receptor binding

Went on to: Tufts University, Ph.D. program

Name: Nina IRANI

Undergraduate (M.I.T.) 1993 Status/Dates: Project/Duties: Summer Research Went on to: graduated M.I.T. (B.S.)

Name: Kristina KALAN

Status/Dates: Undergraduate (Harvard) 1994 Project/Duties: Research Tutorial in Chemistry

Went on to: graduated Harvard College, B.A. in Chemistry

Name: Natalie Campbell Status/Dates: Undergraduate (Harvard) 1995

Summer Research Project/Duties:

Case 3:09-md-02100-DRH-PMF Document 200610*SEALED* Filed 11/14/11 Page 114 of 119
Page ID #16657

Went on to:

unknown

Name:

Bertrand TSENG, Ph.D. Undergraduate (Harvard)

Status/Dates: Project/Dates

Summer Research

Went on to:

graduated Scripps, Ph.D. in Marine Biology

PREDOCTORAL TRAINEES:

University Chemical Laboratory, University of Cambridge, Cambridge, UK

Name:

Carol V. ROBINSON, Ph.D. (née BRADLEY)

Status/Dates:

Graduate student (main mentor: D. H. Williams)

1981-1982

1981-1982

1990-1992

1991-1992

1996

Curriculum Vitae

Project:

Isolation, characterization of novel neuropeptides

Went on to:

Postdoc at University of Bristol

Lecturer in Chemistry at University of Oxford Reader in Chemistry at University of Cambridge

Fellow of the Royal Society of London

Name:

Sitthivett SANTIKARN, Ph.D.

Status/Dates:

Graduate student (main mentor: D. H. Williams)

Project/Duties:

Structure of biologically active peptides

Went on to:

Postdoc at UCSF, postdoc at Harvard School of Public Health

Corporate CEO, Bangkok, Thailand

Dept. of Pharmacology or Dept. of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, MA

Name:

John DeBIN, M.D., Ph.D.

Status/Dates:

Graduate student (co-mentor: G. R. Strichartz)

Project/Duties:

Isolation and characterization of chlorotoxin

Went on to:

Medical residency, Albany, NY

Name:

Ivana HUBAÇEK-VESELSKA, M.S.

Status/Dates:

Research Associate

Project/Duties:

Synthesis of photoreactive amino acids

Went on to:

graduate student at ETH, Zurich, Switzerland

Name:

William P. ESLER, Ph.D.

Status/Dates:

Graduate Student

1994-1998

Project/Duties:

Deposition of Alzheimer's disease AB peptides

Thesis Title:

Alzheimer's disease beta-amyloid peptide assembly and deposition

in vitro

Went on to:

Postdoc at Harvard Medical School

Senior Scientist, Bayer Corporation, West Haven, CT

Case 3:09-md-02100-DRH-PMF Document 209611*SEALED* Filed 11/14/11 Page 115 of 119

Curriculum Vitae

Rotating graduate students (incomplete list):

Diana COLLAZO (Pharmacology, 1987); Junping YANG (Pharmacology, 1988); Steven SHAMAH (BCMP, 1988); Alec GARRAWAY (BCMP, 1990); Phillip SCHWARTZ (Neuroscience, 1992); Alana O'REILLY (BCMP, 1992); Kelly VAN KOUGHNET (Neuroscience, 1993)

University of Cincinnati College of Medicine, Cincinnati, OH

Name:

Gregory F. EGNACZYK, M.D., Ph.D.

Status/Dates:

Graduate Student

1998-2001

Project/Duties:

Photoaffinity Labeling and Proteomics

Thesis Title:

Biochemical studies of beta-amyloid (Aβ) fibrils

Went on to:

Resident in Cardiology, Massachusetts General Hospital, Boston, MA

Name:

Jeffrey R. MARSHALL, Ph.D.

Status/Dates:

Graduate Student

1998-2002

Project/Duties:

Deposition and amyloid imaging using AB peptides

Thesis Title:

Kinetics of AB peptide deposition: Toward in vivo imaging

of Alzheimer's disease amyloid

Went on to:

Marshall Investment Research, Cleveland, OH

Rotating Graduate Students (incomplete list):

Alicia Gardner (Pharmacology and Cell Biophysics, 2000), Eric Johnson (PSTP, 2000), Lamar GERBER (Pharmacology and Cell Biophysics, 2001), Rick FLANNERY (Neuroscience (2001), Joshua KOSCHER (Neuroscience, 2002)

POSTDOCTORAL TRAINEES:

Medical Research Council, Cambridge, UK

Name:

John C. HUNTER, Ph.D.

Status/Dates:

Postdoc

1982-1984

Project/Duties:

Pharmacology of novel mammalian tachykinins

Went on to:

Parke-Davis (Cambridge, UK)

Syntex (Palo Alto, CA)

Roche Bioscience (Palo Alto, CA)

Vice President, CNS/CV Biology Research, Schering-Plough

Research Institute, Kenilworth, NJ

Harvard Medical School, Boston, MA

Name:

Werner F. SPILL, M.D.

Status/Dates:

Postdoc

1988-1989

Project/Duties:

Neuropeptide localization by immunochemistry

Went on to:

Practicing physician, Germany

Case 3:09-md-02100-DRH-PMF Document 209612*SEALED* Filed 11/14/11 Page 116 of 119
Page ID #16659

Curriculum Vitae

Name:

Irmgard Th. PERSHA-LIPPE, Ph.D. (née LIPPE)

Status/Dates:

Postdoc

1989-1990

Project/Duties:

Neuropeptide receptors on immune cells in culture

Went on to:

Assistant Professor of Pharmacology, University of Graz, Austria Prof. and Vice-Head, Department of Experimental and Clinical Pharmacology, Medical University of Graz, Austria

Name:

Heng-Phon TOO, Ph.D.

Status/Dates:

Postdoc

1988-1993

Project/Duties:

Tachykinins, tachykinin receptors in nociception

Went on to:

Associate Professor, Department of Biochemistry, Faculty of Medicine, National University of Singapore, Singapore

Name:

Evelyn R. STIMSON, Ph.D.

Status/Dates:

Senior Research Associate

1988-date

1992-1994

1994

Project/Duties:

Tachykinins and amyloid peptides

Went on to:

Working in my lab

Name:

Jonathan P. LEE, Ph.D.

Status/Dates:

Research Associate

Project/Duties:

NMR of labeled amyloid peptides

Went on to:

Assistant Professor of Chemistry, Boston University, Boston, MA

Name:

Yueming Ll. Ph.D.

Status/Dates:

Postdoc

Project/Duties: Went on to:

Tachykinin receptor photolabeling
Principal Scientist, Merck & Co., West Point, PA

Associate Member, Memorial Sloan-Kettering, New York, NY

Name:

Ping DING

Status/Dates:

Postdoc

Project/Duties:

Peptide biochemistry

Went on to:

US Army Research Laboratories, Natick, MA

Name:

Clary CLISH, Ph.D.

Status/Dates:

Postdoc (main mentor: J. P. Lee)

1995-1996

1995-date

Project/Duties:

Diffusion (MW) measurements by NMR of Aβ peptides

Went on to:

Postdoc, Brigham & Women's Hospital, Boston, MA

Name:

Carol J. WILSON, Ph.D.

Status/Dates:

Postdoc

1994-1997

Project/Duties: Went on to:

Protein chemistry, immunochemistry Collagenesis, Inc., Waltham, MA

Collageriesis, Inc., vvaliliam, IVIA

Senior Scientist, Akcelis Corporation, Medford, MA

University of Cincinnati College of Medicine, Cincinnati, OH

Case 3:09-md-02100-DRH-PMF Document 200618*SEALED* Filed 11/14/11 Page 117 of 119 Page ID #16660 Curriculum Vitae

Name:

William P. ESLER, Ph.D.

1998-2000

Status/Dates:

Postdoc

Project/Duties: Went on to:

Aß deposition kinetics and mechanism Postdoc at Harvard Medical School

Senior Scientist, Bayer Corporation, West Haven, CT

PEER REVIEW EXPERIENCE

NIH Study Sections and other grant application review service: See above (National/International Committees)

Referee for the following Journals (ad hoc):

· Am. J. Pathol.

Am. J. Physiol.

 Anal. Biochem. Anesthesiology

Biochemistry

Biochem, Biophys, Acta
 J. Mol. Biol.

 Bioorg. Medic. · Chem. Lett.

Brain Res.

Brit. J. Pharmacol.

Cancer Res.

Endocrinology

Gastroenterology

Gut

J. Am. Chem. Soc.

J. Biol. Chem.

J. Chem. Neuroanat.
 Neurobiol. Aging

J. Lab. Clin. Med.

J. Neurochem.

J. Neuroimmunol.

J. Neurosci.

J. Neurosci. Res.

 J. Receptor Signal Transduction Res.

J. Struct. Biol.

· Lab. Invest.

· Molec. Pharmacol.

Nature

Nature Biotechnol.

Peptides

· Pharmacol, Rev.

· Proc. Natl. Acad. Sci.

USA

· Protein Sci.

Regul. Peptides

Trends Neurosci.

BRIEF PROFESSIONAL BIOGRAPHY

Dr. Maggio's graduate work included research on noncovalent interactions, organic synthesis, reaction mechanisms, biological control, NMR spectroscopy, and protein biochemistry under the mentorship of Nobel laureates Jean-Marie Lehn, Robert B. Woodward, and (principally) Konrad E. Bloch. He received the Ph.D. in Organic Chemistry from Harvard University in 1981. His postdoctoral research on various aspects of neuropeptides and neuropeptide receptors was carried out at the Medical Research Council and the University of Cambridge, UK, with Leslie L. Iversen and Dudley H. Williams; and later at Yale University School of Medicine with Robert H. Roth. He served on the faculty of the Department of Biological Chemistry and Molecular Pharmacology of Harvard Medical School from 1985 to 1997, and is presently the van Maanen Professor of Pharmacology and Experimental Therapeutics at the University of Cincinnati College of Medicine. From 1997-2007, he was the Director (Chair) of the Department of Pharmacology and Cell Biophysics at the University of Cincinnati College of Medicine. Dr.

Maggio is currently (2007-2008) on sabbatical leave as Visiting Professor of Neurology at Harvard Medical School.

Under Dr. Maggio's chairmanship, the Department of Pharmacology and Cell Biophysics at the University of Cincinnati College of Medicine had (30 June 2004) approximately: 15 fulltime faculty, 20 graduate students, headcount 75; annual budget \$5.3 million, research grant holdings \$2.9 million annual direct costs (up from \$1.6 million when I arrived in FY98), 20000 nsf wet space, 30000 nsf total space, operated two College of Medicine Core Facilities (working rodent heart; two-dimensional electrophoresis/proteomics). The department was responsible for the education of medical students in pharmacology and therapeutics.

RESEARCH INTERESTS

The bioactive peptides are the largest and least understood class of intercellular messengers, carrying out a diverse set of functions in a wide variety of systems. Understanding bioactive peptides and their receptors, in the nervous system and elsewhere, is the general research goal in our group.

One system of interest is the tachykinin (substance P) family of peptides and receptors, which are involved in transmission of primary afferents and thus in pain and neurogenic inflammation. As the primary structures of both the ligands and their receptors are known, an excellent model system for peptide-protein interactions in signaling is available. We have identified through photoaffinity labeling regions of the peptide agonist substance P interacting with particular regions of its G-protein-coupled receptor, a protein whose expression is upregulated a thousand-fold in some inflammatory diseases. Radioactive, fluorescent, and antibody probes of these receptors allow studies of expression, desensitization and internalization *in vivo* and *in vitro* in various cell and tissue systems.

A major interest, and a system under active investigation currently, is the process of amyloid formation in Alzheimer's disease (AD) and other amyloidoses. The characteristic lesion of AD is brain senile plaques formed mainly of the human amyloid peptide A β , a \approx 40-mer which occurs naturally in normal as well as AD brain. By reconstituting plaque growth (deposition of AB at physiological concentrations onto authentic plagues) in vitro. we can characterize the process and identify conditions and components which enhance or inhibit its kinetics. Structure/activity studies have identified features critical for amyloid deposition and active peptide analogues suitable for high resolution structure determination by nuclear magnetic resonance spectroscopy. The latter studies have further identified conformational elements essential to plaque deposition. High throughput screening methods for drug discovery in this area have also been developed. Kinetic studies are used to assess the role of intermediates and development of agents for in vivo imaging. Proteomic and histological methods are employed to assess the responses of cells and tissues to forms of AB amyloid. Current sabbatical research project (Harvard Medical School, D. Selkoe laboratory): purification, structural characterization of AB oligomers in Alzheimer's disease.

Case 3:09-md-02100-DRH-PMF

Page ID #16662

Curriculum Vitae

Another interest is the characterization of novel bioactive peptides from natural sources. A particularly rich source is the skin venom of certain neotropical frogs. The peptides found here include antibiotics and toxins as well as close analogs of discovered and yet undiscovered mammalian neuropeptides.

REFERENCES available on request.

Updated: July 2009

A short video of Dr. Maggio dissecting and homogenizing postmortem donated human AD brain, centrifuging homogenates, collecting supernatants, etc., is available on internet at http://www.alzforum.org/res/com/videogallery/default.asp. This is a short selection from the 2009 HBO documentary, The Alzheimer's Project. At the website above, choose "Beta-Amyloid Oligomers: Investigating the Culprits" from the available titles below the screen, then play. See minutes 4:00 to 7:00.

C:\My Documents\CV,biosketch,othersupport\Maggio\JEM-longCV-July2009-complete